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| DERWENT-WEEK: | 200018 |
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| TITLE: | Input-output power calculating device for nickel hydrogen battery, corrects opening voltage at which no current flows through battery and extracts corresponding input-output characteristics from memory |
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| PATENT-ASSIGNEE: | NISSAN MOTOR CO LTD[NSMO] |
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| PRIORITY-DATA: | 1998JP-0198695 (July 14, 1998) |
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| PATENT-FAMILY: | |
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| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
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| JP 2000030748 A | January 28, 2000 | N/A | 012 | H01M 010/42 |
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| APPLICATION-DATA: | |
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| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
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| JP2000030748A | N/A | 1998JP-0198695 | July 14, 1998 |

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| INT-CL (IPC): | H01M010/42, H02J007/00 |
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| ABSTRACTED-PUB-NO: | JP2000030748A |
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BASIC-ABSTRACT:

NOVELTY - A calculation unit searches I/O value corresponding to particular terminal voltage of battery, when there is no charging-discharging current to or from the battery. When current flows, an opening voltage at which there is no current flow, is determined and the variation rate is corrected and the I/O characteristics corresponding to the corrected opening voltage is extracted from memory. DETAILED DESCRIPTION - Input-output characteristics of a battery, corresponding to different opening voltages, and a variation rate of opening voltage opposing to the charging-discharging current

are stored in a memory, beforehand. A voltmeter and ammeter respectively measure terminal voltage and charging-discharging current of the battery. An integrator integrates the charging-discharging current. A calculating unit computes I/O of the battery based on I/O characteristics, variation rate, terminal voltage and charging-discharging current.

USE - For I/O characteristics calculation of nickel hydrogen battery.

ADVANTAGE - The I/O electric power of the battery whose opening voltage changes with charging-discharging logs is calculated correctly.

CHOSEN-DRAWING: Dwg.1/13

DERWENT-CLASS: X16

EPI-CODES: X16-B09; X16-G;